

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (Currently Amended) A method of identifying a portion of computer program code as a
2 candidate for a modification, said method comprising ~~the steps of~~ :
3 scanning and parsing source code corresponding to the computer program code
4 to determine static information concerning the computer program code;
5 storing the static information in a database;
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7 collecting dynamic information concerning the computer program code during an
8 execution of the computer program code;
9 storing the dynamic information in the database;
10 developing relationships and dependencies responsive to the static information
11 and dynamic information stored in database;
12 storing the relationships and dependencies in the database; and
13 providing for a query of the database to produce a set of potential candidates of
 computer program code meeting a constraint of the query.

1 2. (Original) The method of claim 1 wherein if insufficient candidates are returned by the
2 query, then providing for a relaxing of the constraint, and a repetition of the query.

1 3. (Original) The method of claim 2 further comprising the step of identifying a portion of the
2 computer program code as a candidate for re-implementation as a database stored procedure call.

1 4. (Currently Amended) A method of identifying a portion of computer program code as a
2 candidate for a modification, said method comprising:
3 scanning and parsing source code corresponding to the computer program code
4 to determine static information concerning the computer program code;
5 storing the static information in a database;
6 collecting dynamic information concerning the computer program code during an
7 execution of the computer program code;
8 storing the dynamic information in the database;
9 developing relationships and dependencies responsive to the static information
10 and dynamic information stored in database;
11 storing the relationships and dependencies in the database;
12 providing for a query of the database to produce a set of potential candidates of
13 computer program code meeting a constraint of the query. ~~The method of claim 3 wherein~~

14 the query searches the database for a portion of the computer program code having static
15 information indicating that the portion of the computer program code contains a call to a
16 database management system, and having dynamic information indicating that the portion
17 of the computer program code is subject to a call by another portion of computer program
18 code;

19 if insufficient candidates are returned by the query, then providing for a relaxing
20 of the constraint, and a repetition of the query; and

21 identifying a portion of the computer program code as a candidate for re-
22 implementation as a database stored procedure call.

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1 5. (Original) The method of claim 4 wherein the query searches the database for a portion of
2 the computer program code having static information indicating that the portion of the computer
3 program code contains a number, above a specified first threshold, of calls to a database
4 management system, and having dynamic information indicating that the portion of the computer
5 program code is subject to a number of calls, above a specified second threshold, by another
6 portion of computer program code.

1 6. (Currently Amended) The method of claim ~~4~~ 2 further comprising ~~the step of~~ identifying a
2 portion of the computer program code as a candidate for re-implementation as a Web-enabling
3 interface call.

1 7. (Original) The method of claim 6 wherein the query searches the database for a portion of
2 the computer program code having static information indicating that the portion of the computer
3 program code contains a transaction call.

1 8. (Original) The method of claim 7 wherein the query also searches the database for a portion
2 of the computer program code having static information indicating that the portion of the
3 computer program does not contain screen output related program code.

1 9. (Currently Amended) An article of manufacture for use in a computer system for identifying
2 a portion of computer program code as a candidate for a modification, said article of
3 manufacture comprising a computer-readable storage medium having a computer program
4 embodied in said medium which causes the computer system to execute a method ~~comprising the~~
5 ~~steps of:~~

6 scanning and parsing source code corresponding to the computer program code

7 to determine static information concerning the computer program code;

8 storing the static information in a database;

9 collecting dynamic information concerning the computer program code during an
10 execution of the computer program code;

11 storing the dynamic information in the database;

12 developing relationships and dependencies responsive to the static information
13 and dynamic information stored in database;

14 storing the relationships and dependencies in the database; and

15 providing for a query of the database to produce a set of potential candidates of
16 computer program code meeting a constraint of the query.

1 10. (Original) The article of manufacture of claim 9 wherein if insufficient candidates are
2 returned by the query, then providing for a relaxing of the constraint, and a repetition of the
3 query.

1 11. (Original) The article of manufacture of claim 10 wherein the embodied computer program
2 causes the computer system to execute the method step of identifying a portion of the computer
3 program code as a candidate for re-implementation as a database stored procedure call.

1 12. (Currently Amended) An article of manufacture for use in a computer system for
2 identifying a portion of computer program code as a candidate for a modification, said article of
3 manufacture comprising a computer-readable storage medium having a computer program
4 embodied in said medium which causes the computer system to execute a method comprising:
5 scanning and parsing source code corresponding to the computer program code
6 to determine static information concerning the computer program code;
7 storing the static information in a database;
8 collecting dynamic information concerning the computer program code during an
9 execution of the computer program code;
10 storing the dynamic information in the database;
11 developing relationships and dependencies responsive to the static information
12 and dynamic information stored in database;
13 storing the relationships and dependencies in the database;
14 providing for a query of the database to produce a set of potential candidates of
15 computer program code meeting a constraint of the query ~~The article of manufacture of~~
16 ~~claim 11~~ wherein the query searches the database for a portion of the computer program

code having static information indicating that the portion of the computer program code contains a call to a database management system, and having dynamic information indicating that the portion of the computer program code is subject to a call by another portion of computer program code;

if insufficient candidates are returned by the query, then providing for a relaxing of the constraint, and a repetition of the query; and
identifying a portion of the computer program code as a candidate for re-implementation as a database stored procedure call.

13. (Original) The article of manufacture of claim 12 wherein the query searches the database for a portion of the computer program code having static information indicating that the portion of the computer program code contains a number, above a specified first threshold, of calls to a database management system, and having dynamic information indicating that the portion of the computer program code is subject to a number of calls, above a specified second threshold, by another portion of computer program code.

1 14. (Currently Amended) The article of manufacture of claim 12 ~~10~~ wherein the embodied
2 computer program causes the computer system to execute the method step of identifying a
3 portion of the computer program code as a candidate for re-implementation as a Web-enabling
4 interface call.

15. (Original) The article of manufacture of claim 14 wherein the query searches the database
for a portion of the computer program code having static information indicating that the portion
of the computer program code contains a transaction call.

16. (Original) The article of manufacture of claim 15 wherein the query also searches the
database for a portion of the computer program code having static information indicating that the
portion of the computer program does not contain screen output related program code.

1 17. (Original) A computer system for identifying a portion of computer program code as a
2 candidate for a modification, said computer system comprising :
3 a parser for scanning and parsing source code corresponding to the computer
4 program code to determine static information concerning the computer program code;
5 an execution monitor for collecting dynamic information concerning the computer
6 program code during an execution of the computer program code;
7 relationships and dependencies developed responsive to the static information and
8 dynamic information;
9 a database for storing the static information, the dynamic information, and the
10 relationships and dependencies; and
11 a query of the database to produce a set of potential candidates of computer
12 program code meeting a constraint of the query.

1 18. (Original) The computer system of claim 17 wherein if insufficient candidates are returned
2 by the query, then providing for a relaxing of the constraint, and a repetition of the query.

1 19. (Original) The computer system of claim 18 further comprising an identification of a
2 portion of the computer program code as a candidate for re-implementation as a database stored
3 procedure call.

1 20. (Currently Amended) A computer system for identifying a portion of computer program
2 code as a candidate for a modification, said computer system comprising :

3 a parser for scanning and parsing source code corresponding to the computer
4 program code to determine static information concerning the computer program code;

5 an execution monitor for collecting dynamic information concerning the computer
6 program code during an execution of the computer program code;

7 relationships and dependencies developed responsive to the static information and
8 dynamic information;

9 a database for storing the static information, the dynamic information, and the
10 relationships and dependencies; and

11 a query of the database to produce a set of potential candidates of computer
12 program code meeting a constraint of the query ~~The computer system of claim 19~~ wherein
13 the query searches the database for a portion of the computer program code having static
14 information indicating that the portion of the computer program code contains a call to a
15 database management system, and having dynamic information indicating that the portion
16 of the computer program code is subject to a call by another portion of computer program

17 code, and wherein if insufficient candidates are returned by the query, then providing for
18 a relaxing of the constraint, and a repetition of the query; and
19 a portion of the computer program code identified as a candidate for re-
20 implementation as a database stored procedure call.

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1 21. (Original) The computer system of claim 20 wherein the query searches the database for a
2 portion of the computer program code having static information indicating that the portion of the
3 computer program code contains a number, above a specified first threshold, of calls to a
4 database management system, and having dynamic information indicating that the portion of the
5 computer program code is subject to a number of calls, above a specified second threshold, by
6 another portion of computer program code.

1 22. (Currently Amended) The computer system of claim 20 ~~18~~ further comprising an
2 identification of a portion of the computer program code as a candidate for re-implementation as
3 a Web-enabling interface call.

- 1 23. (Original) The computer system of claim 22 wherein the query searches the database for a
2 portion of the computer program code having static information indicating that the portion of the
3 computer program code contains a transaction call.

- 1 24. (Original) The computer system of claim 23 wherein the query also searches the database
2 for a portion of the computer program code having static information indicating that
3 the portion of the computer program does not contain screen output related program code.
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